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In the Claims

Please replace all prior versions, and listings, of claims in the application with the following list of claims:

1. (Currently amended) An explosive detection system comprising:

a communication medium comprising an Ethernet link;

[[a device]] an X-ray scanner coupled to the communication medium that scans an object and generates information about the object from the scan; and

an external computer, located remotely from the device, that receives the information over the communication medium <u>via the Ethernet link</u> and implements [[an]] <u>a detection</u> algorithm <u>that processes the information</u> to <u>automatically identify subject matter in the information associated with threat material to facilitate performing [[make]] a threat determination about the object.</u>

2-17. Cancelled

18. (Currently amended) A threat detection system comprising:

a communication medium;

at least one computed tomography (CT) scanner, coupled to the communication medium, that performs at least one CT scan of an object and generates data representative of the object based at least partially upon the at least one CT scan, the CT scanner comprising at least one processor that <u>provides control information</u> [[determines one or more locations]] for the at least one CT scan; and

a computer, [[remote]] <u>distinct</u> from the CT scanner and coupled to the communication medium, that receives the data from the CT scanner via the communication medium and implements [[an]] <u>a detection</u> algorithm that performs a threat determination about the object based at least partially on the data.

19. (Currently amended) A threat detection system comprising: a communication medium;

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at least one computed tomography (CT) scanner, coupled to the communication medium, that performs at least one CT scan of an object and generates data representative of the object based at least partially upon the at least one CT scan, the CT scanner comprising at least one processor that controls, at least in part, [[determines one or more locations for]] the at least one CT scan; and

a computer, [[remote]] <u>distinct</u> from the CT scanner and coupled to the communication medium, that receives the data from the CT scanner via the communication medium and implements [[an]] <u>a detection</u> algorithm that processes the data <u>to automatically identify subject matter in the data associated with threat material</u> [[in a manner]] to facilitate automatically performing a threat determination about the object.

- 20. (Currently amended) The threat detection system of claim 19, wherein the <u>detection</u> algorithm processes the data to perform the threat determination about the object based at least partially on the data.
- 21. (Currently amended) The threat detection system of claim 20, further comprising a second scanner, wherein the computer receives second data from the second scanner, and wherein the <u>detection</u> algorithm processes the second data to perform the threat determination about the object based partially on the second data.
- 22. (Currently amended) The threat detection system of claim 19, further comprising a second scanner, wherein the computer receives second data from the second scanner, and wherein the <u>detection</u> algorithm processes the second data in a manner to facilitate automatically performing the threat determination about the object.
- 23. (Previously presented) The threat detection system of claim 22, wherein the second scanner is a dual energy x-ray device.
- 24. (Previously presented) The threat detection system of claim 22, wherein the second scanner is a line scanning x-ray device.

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25. (Previously presented) The threat determination system of claim 22, wherein the data from the CT scanner comprises density information representative of the object.

- 26. (Previously presented) The threat determination system of claim 25, wherein the second data comprises effective atomic number information representative of the object.
- 27. (Previously presented) The threat determination system of claim 25, wherein the second data comprises mass information representative of the object.
- 28. (Previously presented) The threat determination system of claim 25, wherein the second scanner is coupled to the computer via the communication medium.
- 29. (Previously presented) The threat detection system of claim 19, wherein the communication medium comprises an Ethernet link.
- 30. (Previously presented) The threat detection system of claim 19, wherein the communication medium comprises a network.
- 31. (Currently amended) A method of making a threat determination about an object, the method comprising acts of:
- (A) performing a computed tomography (CT) scan of the object using a CT scanner that generates data representative of the object, the CT scan comprising a scan at a plurality of locations, the CT scanner comprising at least one processor that controls, at least in part, [[determines the locations for]] the CT scan;
- (B) transmitting the data from the CT scanner over a communication medium to a remote computer that is distinct from the CT scanner; and
- (C) processing the data, via the remote computer, [[in a manner to facilitate]] to automatically identify subject matter in the data associated with threat material to facilitate performing a threat determination about the object.

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32. (Previously presented) The method of claim 31, wherein the act (C) comprises an act of processing the data to perform the threat determination about the object.

- 33. (Currently amended) The method of claim 32, further comprising acts of:
- (D) receiving second data at the [[remote]] <u>distinct</u> computer from a second scanner; and
- (E) processing the second data, via the [[remote]] <u>distinct</u> computer, to perform the threat determination about the object.
- 34. (Currently amended) The method of claim 31, further comprising acts of:
- (D) receiving second data at the [[remote]] <u>distinct</u> computer from a second scanner; and
- (E) processing the second data, via the [[remote]] <u>distinct</u> computer, in a manner to facilitate automatically performing the threat determination about the object.
- 35. (Currently amended) The method of claim 34, wherein the act (D) comprises an act of receiving the second data at the [[remote]] distinct computer from a dual energy x-ray device.
- 36. (Currently amended) The method of claim 34, wherein the act (D) comprises an act of receiving the second data at the [[remote]] distinct computer from a line scanning x-ray device.
- 37. (Previously presented) The method of claim 34, wherein the data comprises density information representative of the object, and wherein the act (C) comprises processing the density information in a manner to facilitate automatically performing the threat determination about the object.
- 38. (Previously presented) The method of claim 37, wherein the second data comprises effective atomic number information representative of the object, and wherein the act (E) comprises processing the effective atomic number information in a manner to facilitate automatically performing the threat determination about the object.

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39. (Previously presented) The method of claim 37, wherein the second data comprises mass information representative of the object, and wherein the act (E) comprises processing the mass information in a manner to facilitate automatically performing the threat determination about the object.

- 40. (Previously presented) The method of claim 31, wherein the act (B) comprises transmitting the data from the CT scanner to the remote computer over a communication medium comprising an Ethernet link.
- 41. (Previously presented) The method of claim 31, wherein the act (B) comprises transmitting the data from the CT scanner to the remote computer over a communication medium comprising a network.
- 42. (New) The explosive detection system of claim 1, wherein the X-ray scanning device includes a computed tomography (CT) scanner.